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FILE 'HOME' ENTERED AT 16:15:54 ON 14 SEP 2005

=> file medline

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 16:16:20 ON 14 SEP 2005

FILE LAST UPDATED: 13 SEP 2005 (20050913/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP  
RLOAD at an arrow prompt (=>). See also:

<http://www.nlm.nih.gov/mesh/>

[http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html)

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s helioth? or lepidopter?

950 HELIOTH?

4854 LEPIDOPTER?

L1 5553 HELIOTH? OR LEPIDOPTER?

=> s l1(p) glutamat?

73579 GLUTAMAT?

L2 16 L1(P) GLUTAMAT?

=> d 1-16 ti so

L2 ANSWER 1 OF 16 MEDLINE on STN

TI The amino acids used in reproduction by butterflies: a comparative study of dietary sources using compound-specific stable isotope analysis.

SO Physiological and biochemical zoology : PBZ, (2005 Sep-Oct) 78 (5) 819-27.  
Electronic Publication: 2005-05-27.  
Journal code: 100883369. ISSN: 1522-2152.

L2 ANSWER 2 OF 16 MEDLINE on STN

TI Lepidopteran herbivory and oral factors induce transcripts encoding novel terpene synthases in *Medicago truncatula*.

SO Archives of insect biochemistry and physiology, (2005 Feb) 58 (2) 114-27.  
Journal code: 8501752. ISSN: 0739-4462.

L2 ANSWER 3 OF 16 MEDLINE on STN

TI An analysis of plant-aphid interactions by different microarray hybridization strategies.

SO Molecular ecology, (2004 Oct) 13 (10) 3187-95.  
Journal code: 9214478. ISSN: 0962-1083.

L2 ANSWER 4 OF 16 MEDLINE on STN

TI Individual variability in herbivore-specific elicitors from the plant's perspective.

SO Molecular ecology, (2004 Aug) 13 (8) 2421-33.  
Journal code: 9214478. ISSN: 0962-1083.

L2 ANSWER 5 OF 16 MEDLINE on STN

TI Characterization of a digestive carboxypeptidase from the insect pest corn earworm (*Helicoverpa armigera*) with novel specificity towards C-terminal glutamate residues.

SO European journal of biochemistry / FEBS, (2004 May) 271 (10) 2000-11.  
Journal code: 0107600. ISSN: 0014-2956.

L2 ANSWER 6 OF 16 MEDLINE on STN

TI Preparation and biological assessment of hydroxycinnamic acid amides of polyamines.

SO Phytochemistry, (2003 Jun) 63 (3) 315-34.  
Journal code: 0151434. ISSN: 0031-9422.

L2 ANSWER 7 OF 16 MEDLINE on STN

TI Effects of calcium and glutamate receptor agonists on leaf consumption by lepidopteran neonates.

SO Pharmacology, biochemistry, and behavior, (2003 Jan) 74 (2) 389-94.  
Journal code: 0367050. ISSN: 0091-3057.

L2 ANSWER 8 OF 16 MEDLINE on STN

TI Combined imaging and chemical sensing of L-glutamate release from the foregut plexus of the lepidopteran, *Manduca sexta*.

SO Journal of neuroscience methods, (2002 Oct 15) 120 (1) 1-10.  
Journal code: 7905558. ISSN: 0165-0270.

L2 ANSWER 9 OF 16 MEDLINE on STN

TI Fractionation of scorpion (*Mesobuthus tamulus*) venom and the impact of

specific fractions on glutamate metabolism.

SO Journal of biochemistry, molecular biology, and biophysics : JBMBB : official journal of the Federation of Asian and Oceanian Biochemists and Molecular Biologists (FAOBMB), (2002 Jun) 6 (3) 167-70.  
Journal code: 9714994. ISSN: 1025-8140.

L2 ANSWER 10 OF 16 MEDLINE on STN  
TI Phosphorylation site mutations in heterochromatin protein 1 (HP1) reduce or eliminate silencing activity.  
SO Journal of biological chemistry, (2001 Mar 23) 276 (12) 9512-8.  
Electronic Publication: 2000-12-19.  
Journal code: 2985121R. ISSN: 0021-9258.

L2 ANSWER 11 OF 16 MEDLINE on STN  
TI Roseovarius tolerans gen. nov., sp. nov., a budding bacterium with variable bacteriochlorophyll a production from hypersaline Ekho Lake.  
SO International journal of systematic bacteriology, (1999 Jan) 49 Pt 1 137-47.  
Journal code: 0042143. ISSN: 0020-7713.

L2 ANSWER 12 OF 16 MEDLINE on STN  
TI Antarctobacter heliothermus gen. nov., sp. nov., a budding bacterium from hypersaline and heliothermal Ekho Lake.  
SO International journal of systematic bacteriology, (1998 Oct) 48 Pt 4 1363-72.  
Journal code: 0042143. ISSN: 0020-7713.

L2 ANSWER 13 OF 16 MEDLINE on STN  
TI Molecular characteristics of mammalian and insect amino acid transporters: implications for amino acid homeostasis.  
SO Journal of experimental biology, (1997 Jan) 200 (Pt 2) 269-86. Ref: 200  
Journal code: 0243705. ISSN: 0022-0949.

L2 ANSWER 14 OF 16 MEDLINE on STN  
TI Anomalous glutamate/alkali cation symport in larval Manduca sexta midgut.  
SO Journal of experimental biology, (1994 Sep) 194 181-94.  
Journal code: 0243705. ISSN: 0022-0949.

L2 ANSWER 15 OF 16 MEDLINE on STN  
TI Metabolism of L-canavanine and L-canaline in the tobacco budworm, Heliothis virescens [Noctuidae].  
SO Chemical research in toxicology, (1991 Mar-Apr) 4 (2) 237-40.  
Journal code: 8807448. ISSN: 0893-228X.

L2 ANSWER 16 OF 16 MEDLINE on STN  
TI Isolation and sequencing of cDNA clones coding for juvenile hormone esterase from Heliothis virescens. Evidence for a catalytic mechanism for the serine carboxylesterases different from that of the serine proteases.  
SO Journal of biological chemistry, (1989 Jul 25) 264 (21) 12419-25.  
Journal code: 2985121R. ISSN: 0021-9258.

=> s l1(p) chloride  
139922 CHLORIDE  
L3 13 L1(P) CHLORIDE

=> d 1-13 ti so

L3 ANSWER 1 OF 13 MEDLINE on STN  
TI Zinc and Manduca sexta hemocyte functions.  
SO J Insect Sci, (2002) 2 6. Electronic Publication: 2002-03-25.  
Journal code: 101096396. ISSN: 1536-2442.

L3 ANSWER 2 OF 13 MEDLINE on STN  
TI Purification and characterization of a short insect toxin from the venom of the scorpion Buthus tamulus.  
SO FEBS letters, (2002 Sep 25) 528 (1-3) 261-6.  
Journal code: 0155157. ISSN: 0014-5793.

L3 ANSWER 3 OF 13 MEDLINE on STN  
 TI Cordycepin: selective growth inhibitor derived from liquid culture of  
 Cordyceps militaris against Clostridium spp.  
 SO Journal of agricultural and food chemistry, (2000 Jul) 48 (7) 2744-8.  
 Journal code: 0374755. ISSN: 0021-8561.

L3 ANSWER 4 OF 13 MEDLINE on STN  
 TI Characterization and comparative pharmacological studies of a functional  
 gamma-aminobutyric acid (GABA) receptor cloned from the tobacco budworm,  
 Heliothis virescens (Noctuidae:Lepidoptera).  
 SO Invertebrate neuroscience : IN, (1998 Mar) 3 (4) 305-15.  
 Journal code: 9602489. ISSN: 1354-2516.

L3 ANSWER 5 OF 13 MEDLINE on STN  
 TI Expression of human placental cytochrome P450 aromatase (CYP19) cDNA in  
 insect cells using a luciferase based baculovirus vector.  
 SO Biochemical and biophysical research communications, (1993 Dec 30) 197 (3)  
 1511-7.  
 Journal code: 0372516. ISSN: 0006-291X.

L3 ANSWER 6 OF 13 MEDLINE on STN  
 TI Lepidopteran-specific crystal toxins from Bacillus thuringiensis form  
 cation- and anion-selective channels in planar lipid bilayers.  
 SO Journal of membrane biology, (1993 Feb) 132 (1) 53-62.  
 Journal code: 0211301. ISSN: 0022-2631.

L3 ANSWER 7 OF 13 MEDLINE on STN  
 TI Effects of copper and tributyltin on stress protein abundance in the  
 rotifer Brachionus plicatilis.  
 SO Comparative biochemistry and physiology. C, Comparative pharmacology and  
 toxicology, (1991) 98 (2-3) 385-90.  
 Journal code: 8310013. ISSN: 0742-8413.

L3 ANSWER 8 OF 13 MEDLINE on STN  
 TI Early response of cultured lepidopteran cells to exposure to  
 delta-endotoxin from Bacillus thuringiensis: involvement of calcium and  
 anionic channels.  
 SO Biochimica et biophysica acta, (1991 Jun 18) 1065 (2) 250-60.  
 Journal code: 0217513. ISSN: 0006-3002.

L3 ANSWER 9 OF 13 MEDLINE on STN  
 TI A vacuolar-type proton pump in a vesicle fraction enriched with potassium  
 transporting plasma membranes from tobacco hornworm midgut.  
 SO Journal of biological chemistry, (1989 Jul 5) 264 (19) 11143-8.  
 Journal code: 2985121R. ISSN: 0021-9258.

L3 ANSWER 10 OF 13 MEDLINE on STN  
 TI Separation and identification of geometric isomers of 3-hydroxyretinoids  
 and occurrence in the eyes of insects.  
 SO Vision research, (1986) 26 (11) 1763-9.  
 Journal code: 0417402. ISSN: 0042-6989.

L3 ANSWER 11 OF 13 MEDLINE on STN  
 TI Chloride transport across the integumentary epithelium of  
 Manduca sexta (Lepidoptera: Sphingidae).  
 SO Journal of comparative physiology. B, Biochemical, systemic, and  
 environmental physiology, (1985) 155 (6) 743-50.  
 Journal code: 8413200. ISSN: 0174-1578.

L3 ANSWER 12 OF 13 MEDLINE on STN  
 TI Midgut and viral associated proteases of Heliothis armigera.  
 SO Intervirology, (1983) 19 (1) 16-25.  
 Journal code: 0364265. ISSN: 0300-5526.

L3 ANSWER 13 OF 13 MEDLINE on STN  
 TI Demonstration of a pump-mediated efflux in the epithelial potassium active  
 transport system of insect midgut.  
 SO Biophysical journal, (1978 Aug) 23 (2) 313-8.  
 Journal code: 0370626. ISSN: 0006-3495.